

## Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssptayvv1621

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\*\*\*\*\* Welcome to STN International \*\*\*\*\*

NEWS 1 Web Page for STN Seminar Schedule - N. America  
 NEWS 2 OCT 02 CA/Caplus enhanced with pre-1907 records from Chemisches  
 Zentralblatt  
 NEWS 3 OCT 19 BEILSTEIN updated with new compounds  
 NEWS 4 NOV 15 Derwent Indian patent publication number format enhanced  
 NEWS 5 NOV 19 WPIX enhanced with XML display format  
 NEWS 6 NOV 30 ICSD reloaded with enhancements  
 NEWS 7 DEC 04 LINPADOCDB now available on STN  
 NEWS 8 DEC 14 BEILSTEIN pricing structure to change  
 NEWS 9 DEC 17 USPATOLD added to additional database clusters  
 NEWS 10 DEC 17 IMSDRUGCONF removed from database clusters and STN  
 NEWS 11 DEC 17 DGENE now includes more than 10 million sequences  
 NEWS 12 DEC 17 TOXCENTER enhanced with 2008 MeSH vocabulary in  
 MEDLINE segment  
 NEWS 13 DEC 17 MEDLINE and LMEDLINE updated with 2008 MeSH vocabulary  
 NEWS 14 DEC 17 CA/Caplus enhanced with new custom IPC display formats  
 NEWS 15 DEC 17 STN Viewer enhanced with full-text patent content  
 from USPATOLD  
 NEWS 16 JAN 02 STN pricing information for 2008 now available  
 NEWS 17 JAN 16 CAS patent coverage enhanced to include exemplified  
 prophetic substances  
 NEWS 18 JAN 28 USPATFULL, USPAT2, and USPATOLD enhanced with new  
 custom IPC display formats  
 NEWS 19 JAN 28 MARPAT searching enhanced  
 NEWS 20 JAN 28 USGENE now provides USPTO sequence data within 3 days  
 of publication  
 NEWS 21 JAN 28 TOXCENTER enhanced with reloaded MEDLINE segment  
 NEWS 22 JAN 28 MEDLINE and LMEDLINE reloaded with enhancements  
 NEWS 23 FEB 08 STN Express, Version 8.3, now available  
 NEWS 24 FEB 20 PCI now available as a replacement to DPCI  
 NEWS 25 FEB 25 IFIREF reloaded with enhancements  
 NEWS 26 FEB 25 IMSPRODUCT reloaded with enhancements  
 NEWS 27 FEB 29 WPINDEX/WPIDS/WPIX enhanced with ECLA and current  
 U.S. National Patent Classification  
 NEWS 28 MAR 31 IFICDB, IFIPAT, and IFIUDB enhanced with new custom  
 IPC display formats  
 NEWS 29 MAR 31 CAS REGISTRY enhanced with additional experimental  
 spectra  
 NEWS 30 MAR 31 CA/Caplus and CASREACT patent number format for U.S.  
 applications updated  
 NEWS 31 MAR 31 LPCI now available as a replacement to LDPCI  
 NEWS 32 MAR 31 EMBASE, EMBAL, and LEMBASE reloaded with enhancements  
 NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,  
 AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008  
 NEWS HOURS STN Operating Hours Plus Help Desk Availability

NEWS LOGIN      Welcome Banner and News Items  
NEWS IPC8      For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

FILE 'HOME' ENTERED AT 13:49:16 ON 02 APR 2008

=> file casreact  
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.42	0.42

FILE 'CASREACT' ENTERED AT 13:50:10 ON 02 APR 2008  
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT  
COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

FILE CONTENT:1840 - 29 Mar 2008 VOL 148 ISS 14

New CAS Information Use Policies. enter HELP USAGETERMS for details.

```
*****
*          CASREACT now has more than 13.8 million reactions
******
*****
```

Some CASREACT records are derived from the ZIC/VINITI database (1974-1999) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=>  
Uploading C:\Program Files\Stnexp\Queries\10553993-first-rejection.str

```
L1      STRUCTURE uploaded  
=> d l1  
L1 HAS NO ANSWERS  
L1      STR
```

1

Structure attributes must be viewed using STN Express query preparation.

=> s 11  
SAMPLE SEARCH INITIATED 13:50:52 FILE 'CASREACT'  
SCREENING COMPLETE - 646 REACTIONS TO VERIFY FROM 115 DOCUMENTS

100.0% DONE 646 VERIFIED 307 HIT RXNS 50 DOCS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED VERIFICATIONS: 11396 TO 14444  
PROJECTED ANSWERS: 850 TO 1830

L2 50 SEA SSS SAM L1 ( 307 REACTIONS)

=> s 11 full  
FULL SEARCH INITIATED 13:50:58 FILE 'CASREACT'  
SCREENING COMPLETE - 13218 REACTIONS TO VERIFY FROM 2023 DOCUMENTS

100.0% DONE 13218 VERIFIED 7572 HIT RXNS 1237 DOCS  
SEARCH TIME: 00.00.05

L3 1237 SEA SSS FUL L1 ( 7572 REACTIONS)

=> file caplus  
COST IN U.S. DOLLARS SINCE FILE TOTAL  
FULL ESTIMATED COST ENTRY SESSION  
118.42 118.84

FILE 'CAPLUS' ENTERED AT 13:51:08 ON 02 APR 2008  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 2 Apr 2008 VOL 148 ISS 14  
FILE LAST UPDATED: 1 Apr 2008 (20080401/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.  
They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s 13  
L4 1237 L3

=> s 13 and free radical  
1237 L3  
1368029 FREE  
328527 RADICAL  
74182 FREE RADICAL

(FREE (W)RADICAL)  
L5 13 L3 AND FREE RADICAL

=> s 13 and radical  
1237 L3  
328527 RADICAL  
L6 98 L3 AND RADICAL

=> s 13 and initiator  
1237 L3  
74166 INITIATOR  
L7 4 L3 AND INITIATOR

=> s peroxide? or diazo? or dialkylphenylalkane?  
247525 PEROXIDE?  
112472 DIAZO?  
0 DIALKYLPHENYLALKANE?  
L8 359023 PEROXIDE? OR DIAZO? OR DIALKYLPHENYLALKANE?

=> s 18 and 13  
1237 L3  
L9 28 L8 AND L3

=> s 19 and 16  
L10 4 L9 AND L6

=> s 17 or l10  
L11 8 L7 OR L10

=> s l11 not py > 2003  
5547651 PY > 2003  
L12 6 L11 NOT PY > 2003

=> d l12 ibib abs hitstr 1-  
YOU HAVE REQUESTED DATA FROM 6 ANSWERS - CONTINUE? Y/(N):Y

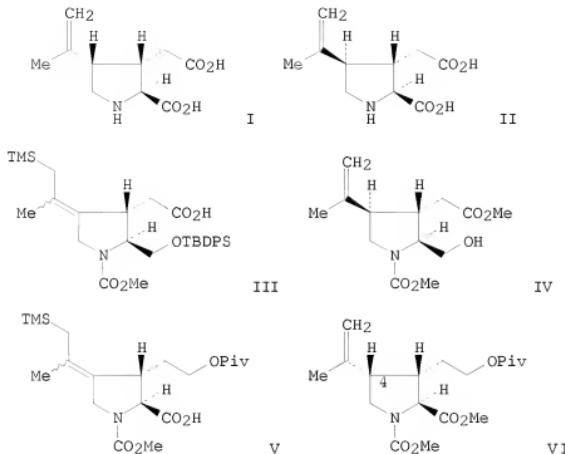
L12 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 2001:228100 CAPLUS  
DOCUMENT NUMBER: 135:92680  
TITLE: Iodine atom transfer addition reaction of 1-iodoalkyl phosphonates to alkenes in the presence of  $\alpha, \alpha'$ -azoisobutyronitrile (AIBN): mechanistic aspects  
AUTHOR(S): Balczewski, Piotr; Mikolajczyk, Marian  
CORPORATE SOURCE: Centre of Molecular and Macromolecular Studies, Polish Academy of Sciences, Lodz, 90-363, Pol.  
SOURCE: New Journal of Chemistry (2001), 25(4), 659-663  
PUBLISHER: Royal Society of Chemistry  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 135:92680  
AB The mechanistic pathway of the title reaction, which constitutes the 1st example of a radical I atom transfer addition reaction of nonfluorine-containing phosphonates, will determine whether 2-iodo-2-methylpropionitrile, 8, can serve as a competing I donor with the starting di-Et 1-iodoalkyl phosphonates, 1a,b. The title reaction proceeds with AIBN as the sole radical initiator, not requiring poisonous Sn reagents as co-initiators, and gave di-Et 3-iodoalkylphosphonates 3a-e (the final products of the propagation step, isolated in 59-95% yield), tetramethylsuccinodinitrile, 9, di-Et methylphosphonate, 4, and tetra-Et ethylenebisphosphonate 5 (all termination products, 0-10% yields). The radical character of this

reaction was demonstrated using TEMPO as a radical trap. 8 (the intermediate of the initiation step), synthesized independently from AIBN and I, caused complete inhibition of the reaction when added to the reaction mixture, indicating that it does not behave as an I donor in the transfer stage, but rather as an inhibitor.

REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1996:1656498 CAPLUS  
DOCUMENT NUMBER: 125:328880  
TITLE: The Synthesis of Phosphonate Ester Containing  
Fluorovinyl Ethers  
AUTHOR(S): Pedersen, Scot D.; Qiu, Weiming; Qiu, Zai-Ming; Kotov,  
Stefan V.; Burton, Donald J.  
CORPORATE SOURCE: Department of Chemistry, University of Iowa, Iowa  
City, IA, 52242, USA  
SOURCE: Journal of Organic Chemistry (1996), 61(23), 8024-8031  
CODEN: JOCEAH; ISSN: 0022-3263  
PUBLISHER: American Chemical Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 125:328880  
AB Three novel perfluorovinyl ethers containing phosphonate ester groups, di-Et 1,1,2,2,3,3,5,6,6-nonafluoro-4-oxa-5-hexenylphosphonate, (EtO)2P(O)(CF2)3OCF:CF2 (1), di-Et 1,1,2,2,4,5,5-heptafluoro-3-oxa-4-pentenylphosphonate, (EtO)2P(O)(CF2)2OCF:CF2 (2), and di-Et 1,1,2,2,4,5,5,7,8,8-decafluoro-4-trifluoromethyl-3,6-dioxa-7-octenylphosphonate, CF2:CFOCF2CF(CF3)O(CF2)2P(O)(OEt)2 (3), have been synthesized. Perfluoro vinyl ethers 1 and 2 were synthesized from Me 4-trifluoroethenoxy-2,2,3,3,4,4-hexafluorobutanoate and Me 3-trifluoroethenoxy-2,2,3,3-tetrafluoropropanoate, resp., while perfluorovinyl ether 3 was synthesized either from 5-trifluoroethenoxy-4-trifluoromethyl-3-oxa-1,1,2,2,4,5,5-heptafluoropentylsulfonyl fluoride or Me 6-trifluoroethenoxy-5-trifluoromethyl-4-oxa-2,2,3,3,5,6,6-heptafluorohexanoate. The carboxylate esters were converted to the corresponding fluoroalkyl iodides via a free-radical iododcarboxylation. The sulfonyl fluoride was converted to its corresponding fluoroalkyl iodide via iododesulfination. The intermediate iodides were useful precursors for the incorporation of the phosphonic ester groups via a photoreaction with tetra-Et pyrophosphite to produce di-Et fluorophosphonites. The di-Et fluorophosphonites were oxidized to the desired phosphonates, 1, 2, and 3, utilizing hydrogen peroxide as the oxidant. Moderate to good overall yields of perfluorovinyl ethers 1-3 have been achieved.

L12 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1993:255278 CAPLUS  
DOCUMENT NUMBER: 118:255278  
TITLE: Stereoccontrolled construction of substituted  
pyrrolidines based on intramolecular protodesilylation  
reaction. Enantiospecific synthesis of (-)-kainic acid  
and (+)-allokainic acid from L-serine  
AUTHOR(S): Hatakeyama, Susumi; Sugawara, Kazutoshi; Takano,  
Seiichi  
CORPORATE SOURCE: Pharm. Inst., Tohoku Univ., Sendai, 980, Japan  
SOURCE: Journal of the Chemical Society, Chemical  
Communications (1993), (2), 125-7  
CODEN: JCCCAT; ISSN: 0022-4936  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 118:255278  
GI



AB Novel stereocontrolled enantiospecific syntheses of (-)-kainic acid (I) and (+)-allopakainic acid (II) have been achieved starting from L-serine via two modes of C-2 and C-3 side chain-directed intramol. protodesilylations of 4-(trimethylsilylmethyl)ethylidenepyrrrolidines. Thus, the  $\text{BF}_3\text{Et}_2\text{O}$ -mediated intramol. protodesilylation reaction of silylated pyrrolidine derivative III (TMS = trimethylsilyl, TBDPS = *tert*-butyldiphenylsilyl) followed by methylation with  $\text{CH}_2\text{N}$  and HF cleavage gave 3,4-*trans*-pyrrolidine IV with complete diastereoselectivity. IV was converted to II in 3 steps. On the other hand, the  $\text{BF}_3\text{Et}_2\text{O}$ -mediated intramol. protodesilylation reaction of silylated pyrrolidine derivative V under diluted conditions proceeded with opposite diastereoselectivity to give 3,4-*cis*-pyrrolidine VI and its C-4 epimer in a ratio of 5.3:1. VI was converted to I.

L12 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1990:7316 CAPLUS

DOCUMENT NUMBER: 112:7316

TITLE: Stereoselective exocyclic double-bond formation via vinyl-radical cyclization

AUTHOR(S): Munt, Simon P.; Thomas, Eric J.

CORPORATE SOURCE: Dyson Perrins Lab., Oxford, OX1 3QY, UK

SOURCE: Journal of the Chemical Society, Chemical Communications (1989), (8), 480-2

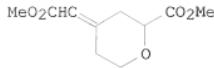
CODEN: JCCCAT; ISSN: 0022-4936

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 112:7316

GI



AB A stereoselective route to 2,6-cis-disubstituted 4-methoxycarbonylmethylenetetrahydropyrans, e.g., I, has been developed which uses a vinyl radical cyclization to establish the geometry of the exocyclic double bond, e.g., of  $\text{MeO}_2\text{CCH}:\text{CRCH}_2\text{CH}_2\text{OC}(:\text{CH}_2)\text{CO}_2\text{Me}$  ( $\text{R} = \text{Br}$ ,  $\text{iodo}$ ).

L12 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1985:166291 CAPLUS

DOCUMENT NUMBER: 102:166291

ORIGINAL REFERENCE NO.: 102:26137a,26140a

TITLE: Exchange of bromine and chlorine by iodine in haloaliphatic compounds induced by pentacarbonyliron

AUTHOR(S): Amriev, R. A.; Velichko, F. K.; Freidlina, R. Kh.

CORPORATE SOURCE: Inst. Elementoorg. Soedin., Moscow, USSR

SOURCE: Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya (1985), (1), 226-8

CODEN: IASKA6; ISSN: 0002-3353

DOCUMENT TYPE: Journal

LANGUAGE: Russian

OTHER SOURCE(S): CASREACT 102:166291

AB  $\text{Fe}(\text{CO})_5$  initiated the exchange reactions of  $\text{RX}$  ( $\text{R} = \text{pentyl, Bu, allyl; X} = \text{Cl, Br}$ ) with  $\text{I}_2$  or  $\text{CHI}_3$  to give  $\text{RI}$ .

L12 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1985:45503 CAPLUS

DOCUMENT NUMBER: 102:45503

ORIGINAL REFERENCE NO.: 102:7145a,7148a

TITLE: Intramolecular Simmons-Smith reaction and other synthetic alternatives to cyclopropanation of dienic diazo ketones. Parallel decomposition pathways of a sterically congested diazo ketone and its vinylcyclopropane under thermal, photolytic, acid-catalyzed, and radical-release conditions

AUTHOR(S): Hudlicky, Tomas; Ranu, Brindaban C.; Naqvi, Saiyid M.; Srnak, Ana

CORPORATE SOURCE: Dep. Chem., Virginia Polytechnic Inst. and State Univ., Blacksburg, VA, 24061, USA

SOURCE: Journal of Organic Chemistry (1985), 50(1), 123-7

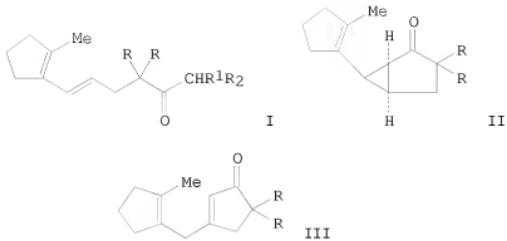
CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 102:45503

GI



AB The decomposition of the diazo dienones I ( $R = H, Me; R1R2 = :N2$ ) under thermal, photolytic, and acid catalyzed conditions was examined. I ( $R = Me, R1R2 = :N2$ ) was converted into geminal dihalides I' ( $R1, R2 = Br, Iodo$ ), which were decomposed under conditions necessitating radical formation. The products, which were mostly the same, of these expts. included the cyclopropane II and the enone III. Reasons for the parallel outcomes of the expts. were discussed.